



Figure 1A + 1B

1 GCAGAGGTAG GCAGGGTTCC CGAGCCGCTC TCCC GGCTCC CTGCTCTGGG
51 CCTTGGGGCT CCACCGGCTT CTTGGCCCGA GCTGCTGCGC GTGCAGATGG
101 CCTTGCGCGA TCGCCGGACC CCGCTGCGGT GGCCAAGTGC AGGGCTTGTG
151 GCTGGGACCC CTGAGAACCA GGAGCCAGAC TGTGCTCAGC TTGCCAGGCC
201 GGAGCCACGC ACGGGCACAA GTCTGTCAGG CCGCCATCAG TCCTGGTCCA
251 GCCGTCAGGG CCCATCCGAC CGTCGGCGAT GTTTTATTTT CACTGCCCCG
301 CACAGCTAGA GGGCACAGCG CCTTTTGGTA ACCACTCTAC GGGGGATTTT
351 GATGATGGGT TTCTTAGAAG AAAACAGCGC AGAAATCGGA CAACCTTCGC
401 TCTTCAGCAG TTGGAAGCTC TGGAGGCAGT CTTTGCCCAA ACACACTACC
451 CAGATGTCTT CACCAGAGAA GAGCTAGCCA TGAAAATAAA CCTCACAGAA
501 GCCAGAGTGC AGGTTTGGTT CCAGAACCGA AGAGCCAAGT GGAGGAAGAC
551 AGAGAGAGGG GCCTCTGACC AGGAACCAGG GGCTAAGGAA CCCATGGCAG
601 AGGTGACACC ACCCCCAGTG AGGAACATCA ACTCTCCACC CCCAGGGGAC
651 CAGGCCCCGG GCAAGAAGGA GGCCCTGGAG GCCCAGCAGA GCCTGGGACG
701 CACAGTGGGC CCCGCCGGGC CTTTCTTCCC CTCCTGCTTG CCAGGGACCC
751 TCCTGAACAC AGCCACTTAT GCCCAGGCCC TGTCCCATGT GGCATCTCTG
801 AAAGGGGGCC CACTGTGCTC TTGCTGCGTC CCAGACCCTA TGGGGCTCTC
851 CTTCTCCCC ACTTACGGTT GCCAGAGTAA CCGCACAGCC AGCGTGGCTG
901 CCCTGCGCAT GAAGGCCCCG GAGCATTCAG AAGCGGTCCT GCAGTCTGCC
951 AACCTTCTGC CGTCCACCAG CAGCAGCCCC GGCCCTGCCT CCAAGCAGGT
1001 GCCTCCAGAA GGCAGCCAGG ACAAGCCCTC CCCAACGAAG GAACAGAGCG
1051 AGGGAGAGAA GAGCGTATGA GGGTCCGGAG AACCAGCTG GGAGCCCTGC
1101 CCACCCCTGC TTCTCTCAGC CTCAGCCCTG CCAGCCTCTG AACCACAAGG
1151 AGTAGCCACC TCCTCATGGA TCTGACAGGG CAAACGGGAC CTGCAAGCTG
1201 GTTGAGACCT GAAGAGTCCC TCTAGAATTC TGCTGGTAGG CTGTGTTGTT
1251 CTCGCTTTTC CTTTGGTGAC ATTTTCCGAT GGCTCTTAGT GACTCTGGAC
1301 ACTGCTCTGT GATGAGGTCC CTGTTTTTTG CTTTTTGTTT TGTCTCTTTT
1351 TTTTTGTTTT GTTTTGTTTT ATTTTCCAGG CCAAGCAGCC TTGGAGCAAA
1401 GCAGATTAGT TTATTCCACC ATCCTTCTTG AGATATCTGG GAAGGTCTTG
1451 TCAATTCCAA GGACTGTGGC AAGGATCATC CGTGAAAGAT GCCAAGAAGT
1501 GACATCTCAT GACAGGAAAT GAGACGGGCA CTCCCATATT GCTTAAGAAC
1551 CACAGAACTG GTGGACTATC AGCCAGTTCT CACTCCCTTC AGCCAGGACT

1601 GGCATCGGCC TCCTTTGTCT TGTTTAAAGG AATTAGCTGA GGTTTTGGCT
1651 AGGAAGTGAC AAGATATGGG CTGAAGACAT TGTGGTCCTG ACCCTAGCAG
1701 ATCTCCCTGG GCACATCTGA CCTGGTCCAG TCAGGCAGGT TGTCAGTTCTG
1751 GGGATGGGGG CTGCTCTGCT GATTCTGTGT GTGGGTTCCTG TGCAATTAGA
1801 GTGTTCACTT GCAGGCCCCG CTCTCTTCAG AAGAGTGATG GGAAGTTCAC
1851 CAATCAGAAT GTAGCTTTGT AGCCCAGGAA AGGACCAGAG TCCTTGAAGC
1901 GGTAGGAAAT CCCTAGGAAG GCCCCTTAAA TACTTATGCC CAGATGAGCT
1951 GCCCTTCTTC CTATCCCCGT ATGTCGAGAG GTTGACGAGA CAGGAAAGCC
2001 AGGAAGATGA CTCCGTGTGG CAGAAGAGAA TGGAGTCCAA AGGGCCAAC
2051 TTCACAGAGA TTTCTGCCGC AGTTTAGCGT GGCTGTGTTC TTTCACGCGA
2101 TGGTGACTTC GGAGAGATCA GAGGGAGATG TGCAATAGCA TGAGCCCCGC
2151 TCCTGGCCCCG GGTCTTGGAA AGGTTGTGGT TGTTTGGTGG CTTTGGCTGA
2201 TGATGTTTCC ACGCAAACAG ATATTGCTTT CATGATGGCT GTTCTCATTT
2251 CAGTTCTGAT AATCGAGACG CTGTGCTCCC AGGCGCTCTG CCTCCCCTTA
2301 ACTCTTCAGG AGCACCCCT CCCCTGTAAT ACTCCTAAGT GTATCGTGCC
2351 TCACTTACGG TTAAGTCAAC ACATTTGATG GAACACACTG TCTCCTTTAA
2401 AAAAGAAAAA AAAAAAAAAA AAAA

Fig 2B

A MFYFHCPPQLEGTAPFGNHSTGDFDDGFLR 30
 RKQRRNRTTFALQQLEALEAVFAQTHYPDV 60
 FTREELAMKINLTEARVQVWFQNRRAKWRK 90
 TERGASDQEPGAKEPMAEVTPPPVRNINSP 120
 PPGDQARGKKEALEAQQLGRTVGPAGPFF 150
 PSCLPGTLLNTATYAQALSHVASLKGGPLC 180
 SCCVPDPMGLSFLPTYGCQSNRTASVAALR 210
 MKAREHSEAVLQSANLLPSTSSSPGPASKQ 240
 VPPEGSQDKPSPTKEQSEGEKSV* 264

Figure 3

Drg11	G F L R R K Q R R N R T T F A L Q Q L E A L E A V F A Q T H Y P D V F T R E E L A M K I N L T E A R	50
Phox2	L H E K R K Q R R I R T T F T S A Q L K E L E R V F A E T H Y P D I Y T R E E L A L K I D L T E A R	50
Pax3	L P L K R K Q R R S R T T F T A E Q L E E L E R A F E R T H Y P D I Y T R E E L A Q R A K L T E A R	50
Cart1	N V S S S K K R R H R T T F T S L Q L E E L E K V F Q K T H Y P D V Y V R E Q L A L R T E L T E A R	50
Phox1	E K K K R K Q R R N R T T F P N S S Q L Q A L E R V F E R T H Y P D A F V R E D L A R R V N L T E A R	50
S8	T K R K K Q R R N R T T F P N S S Q L Q A L E R V F E R T H Y P D A F V R E E L A R R V N L S E A R	50
Pax6	L Q L K R K L Q R N R T S F T Q E Q I E A L E K E F E R T H Y P D V F A R E R L A A K I D L P E A R	50
Dal	Y A P K R K Q R R Y R T T F T S F Q L E E L E K A F S R T H Y P D V F T R E E L A M K I G L T E A R	50
Dprd	I A L K R K Q R R C R T T F T S A S Q L D E L E R A F E R T Q Y P D I Y T R E E L A Q R T N L T E A R	50
Drepo	D P N G I K K K K T R T T F T A Y Q L E E L E R A F E R A P Y P D V F A R E E L A I K L N L S E S R	50
Cunc4	G E S A A K R R R T R T N F S G W Q L E E L E S A F E A S H Y P D V F M R E A L A M R L D L L E S R	50
Drg11	V Q V W F Q N R R A K W R K T E R G A S	70
Phox2	V Q V W F Q N R R A K F R K Q E R A A S	70
Pax3	V Q V W F S N R R A R W R K Q A G A N Q	70
Cart1	V Q V W F Q N R R A K W R K R E R Y G Q	70
Phox1	V Q V W F Q N R R A K F R R N E R A M L	70
S8	V Q V W F Q N R R A K F R R N E R A M L	70
Pax6	I Q V W F S N R R A K W R R E E K L R N	70
Dal	I Q V W F Q N R R A K W R K Q E K V G P	70
Dprd	I Q V W F S N R R A R L R K Q H T S V S	70
Drepo	V Q V W F Q N R R A K W R K H E P P R K	70
Cunc4	V Q V W F Q N R R A K W R K R E Q N R N	70

Figure 4